SANTIAGO CASTAÑÓN MORESCHI

SOFTWARE DEVELOPER | PYTHON & BACKEND WEB DEVELOPMENT | LINUX ADMINISTRATOR

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PROFESSIONAL PROFILE

Python-focused Software Developer with practical experience designing, developing, deploying, and maintaining web applications and business software solutions. Experienced in backend development, database integration, process automation, and Linux server administration. Hands-on expertise gained through personal projects and third-party collaborations, covering the full development lifecycle from requirements analysis and technical design to deployment and maintenance. Committed to building reliable, scalable, and maintainable software infrastructure.

TECHNICAL SKILLS

Languages & Web
- Python
- JavaScript
- SQL
- HTML5 & CSS3

Backend Development
- Flask & Django
- RESTful APIs
- SQLAlchemy
- Modular Architecture
- Auth & Access Control

Databases
- PostgreSQL & PostGIS
- Redis
- Relational DB Design

Automation & Data
- pandas & openpyxl
- PDF/Excel Automation
- Data Validation

Infrastructure & Ops
- Debian / Linux Admin
- Docker & Compose
- Nginx & Gunicorn
- systemd, SSH, WireGuard
- Fail2ban Security

Tools
- Git & GitHub
- Python Virtual Environments
- CLI & Shell Scripting

CERTIFICATIONS

PCAP – Certified Associate in Python Programming
Python Institute · Passed Oct 2026

IT Specialist – Python
Certiport

SELECTED PROJECTS & DEVELOPMENT EXPERIENCE

Zarzalejo Boulder On-Line — Full-stack Web Application

Web platform for managing and exploring climbing areas, sectors, and routes with geospatial mapping.

- Developed Flask backend and integrated PostgreSQL/PostGIS for geospatial data management.
- Implemented interactive maps using Leaflet and JavaScript, plus administrative user workflows.
- Integrated Redis caching and application rate-limiting security mechanisms.
- Deployed and maintained on Debian server using Nginx and Gunicorn.

Tech: Python, Flask, PostgreSQL, PostGIS, Redis, JavaScript, Leaflet, Nginx, Gunicorn, Linux.

Manduca – Gastronomía en Movimiento — Catering Web & Management App

Business application for a catering company to manage service catalogues and quotation workflows.

- Created request quotation systems and administrative management modules with Flask & SQLAlchemy.
- Integrated database persistence, request validation, and production deployment on Linux.

Tech: Python, Flask, PostgreSQL, SQLAlchemy, HTML, CSS, JavaScript, Nginx, Gunicorn.

Business Quality Claims Automation — Process Automation Solution

Automated system for processing quality claims, drastically reducing manual data entry.

- Automated data extraction and cross-referencing from unstructured PDF and Excel documents.
- Built reporting pipelines using Django, pandas, and openpyxl inside containerized Docker environments.

Tech: Python, Django, PostgreSQL, pandas, openpyxl, Docker.

LocalOps AI – Infrastructure Auditing — Linux System Monitoring (In Dev)

- Developed Python collectors to gather structured system and service audit telemetry via SSH.
- Designed JSON audit reports, Django incident history interface, and Docker Compose deployment.

Tech: Python, Django, PostgreSQL, Docker Compose, Linux, JSON, SSH.

Home Server & Infrastructure — Linux Administration & Self-Hosting

- Configured Debian server with Nginx reverse proxy, Gunicorn systemd services, and WireGuard VPN.
- Implemented server security (Fail2ban, SSH hardening) and log extraction automation tools.

Tech: Debian, Linux, Nginx, Gunicorn, PostgreSQL, Redis, Docker, WireGuard, Fail2ban.

EDUCATION & PROFESSIONAL TRAINING

EDUCATION & GOALS

Microsoft AZ-104: Azure Administrator
Currently studying

Focus areas: Cloud, Identity and Access Management (IAM), Virtual Networks and Storage.

LANGUAGES

Spanish
Native

English
Working proficiency; strong reading and listening comprehension.

COMPLETED PROFESSIONAL TRAINING

Applied Machine Learning with Python (IFCD093PO)
Completed: 11 June 2025 – 16 July 2025

Duration: 150 hours

Provider: Proyecto Universidad Empresa S.L.

Successfully completed the training programme in Applied Machine Learning using Python.

Training diploma issued on 16 July 2025.